ABSTRACT

A system and method are disclosed for providing a control signal to control an excitation level of an alternator. The system includes a first calculation element that receives first, second and third indications of first, second and third output voltages of first, second and third phases of the alternator, respectively, and calculates a first feedback signal in dependence upon the received first, second and third indications. The system additionally includes a second calculation element that receives the first indication and calculates a second feedback signal in dependence upon the received first indication. The system further includes an intermediate signal generation element that receives a target input and the first feedback signal, and in response provides an intermediate signal. The system additionally includes a control signal generation element that receives the intermediate signal and the second feedback signal, and in response provides the control signal.